Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application. The following listing provides the amended claims with the amendments marked with deleted material crossed out and new material underlined to show the changes made.

Claims 1-19 (Canceled)

20.   (Previously Presented) A method for creating a description of a user interface that transacts with a database having a data model containing a plurality of entities, the description being created using the data model of the database, the method comprising:

a)   classifying the plurality of entities into entity types, the classifying comprising:

determining whether a first entity in the plurality of entities satisfies a first set of conditions; and

classifying the first entity as a first entity type upon determining that the first entity satisfies the first set of conditions; and

b)   creating the description of the user interface based upon the classification of the plurality of entities.

21.   (Previously Presented) The method of claim 20 wherein:

each entity in the data model describes a type of data object associated with the database; and

the classifying produces the first entity type for a first group of data objects and a second entity type for a second group of data objects, the data objects in the first group of data objects being updated in the database more frequently than the data objects in the second group of data objects.

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22.   (Previously Presented) The method of claim 21 wherein the first entity type is a Main entity type and the second entity type is an Enumeration entity type.

23.   (Previously Presented) The method of claim 20 wherein the description is a generic description configured to be interpreted in different platforms or operating environments.

24.   (Previously Presented) The method of claim 20 wherein the description is in eXtensible Markup Language (XML).

25.   (Previously Presented) The method of claim 20 wherein the classifying and creating are performed automatically without human assistance.

26.   (Previously Presented) The method of claim 20 further comprising, before the receiving:

obtaining a current data model of the database, the current data model reflecting any changes to the database up to when the current data model is obtained, wherein a current description of the user interface is created using the current data model of the database.

27.   (Previously Presented) The method of claim 20 further comprising:

before the classifying, receiving a request from a client that the description be created, wherein receiving the request triggers the classifying of entities into entity types.

28.   (Previously Presented) A computer for creating a description of a user interface that transacts with a database having a data model containing a plurality of entities, the description being created using the data model of the database, the computer comprising:

a memory for storing sets of instructions comprising:

a set of instructions for classifying the plurality of entities into entity types, the set of instructions for classifying comprising:

a set of instructions for determining whether a first entity in the plurality of entities satisfies a first set of conditions; and

a set of instructions for classifying the first entity as a first entity type upon determining that the first entity satisfies the first set of conditions; and

a set of instructions for creating the description of the user interface based upon the classification of the plurality of entities; and

a network interface for interfacing with a network.

29.   (Previously Presented) The computer of claim 28 wherein the description is a generic description configured to be interpreted in different platforms or operating environments.

30.   (Previously Presented) The computer of claim 28 wherein the sets of instructions further comprises:

a set of instructions for distributing the description to a client via the network for enabling the client to generate the user interface; and

a set of instructions for providing data from the database to the client for populating the user interface.

31.   (Currently Amended) A ~~computer program product having a~~ computer readable medium ~~having~~ storing a computer program ~~instructions recorded thereon for creating~~ which when executed by at least one processor creates a description of a user interface that transacts with a database having a data model containing a plurality of entities, the description being created using the data model of the database, the computer program ~~product~~ comprising:

a) instructions for classifying the plurality of entities into entity types, the instructions for classifying comprising instructions for:

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determining whether a first entity in the plurality of entities satisfies a first set of conditions; and

classifying the first entity as a first entity type upon determining that the first entity satisfies the first set of conditions; and

b) instructions for creating the description of the user interface based upon the classification of the plurality of entities.

32.   (Currently Amended) The computer ~~program product~~ readable medium of claim 31 wherein the description is a generic description configured to be interpreted in different platforms or operating environments.

33.   (Currently Amended) The computer ~~program product~~ readable medium of claim 31 further comprising:

instructions for obtaining a current data model of the database, the current data model reflecting any changes to the database up to when the current data model is obtained, wherein a current description of the user interface is created using the current data model of the database.

34.   (Previously Presented) An apparatus for creating a description of a user interface that transacts with a database having a data model containing a plurality of entities, the description being created using the data model of the database, the apparatus comprising:

a) means for classifying the plurality of entities into entity types, the means for classifying comprising means for:

determining whether a first entity in the plurality of entities satisfies a first set of conditions; and

classifying the first entity as a first entity type upon determining that the first entity satisfies the first set of conditions; and

b) means for creating the description of the user interface based upon the classification of the plurality of entities.

35.   (Previously Presented) A method for generating a user interface that transacts with a database having a data model containing a plurality of entities, the method comprising:

receiving a description of the user interface, the description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type upon determination that the first entity satisfies a first set of conditions; and

generating the user interface using the description of the user interface.

36.   (Previously Presented) The method of claim 35 further comprising:

before the receiving, sending a request that the description be created, wherein the request triggers the classifying of entities into entity types; and

after the generating, receiving data from the database in order to populate the user interface.

37.   (Previously Presented) The method of claim 35 further comprising, before the receiving:

sending preferences for the user interface, the preferences being utilized in creating the description.

38.   (Previously Presented) The method of claim 35 further comprising, before the receiving:

sending authentication information.

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39.   (Previously Presented) A computer for generating a user interface that transacts with a database having a data model containing a plurality of entities, the computer comprising:

a memory for storing sets of instructions comprising:

a set of instructions for receiving a description of the user interface from an application server, the description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type upon determination that the first entity satisfies a first set of conditions; and

a set of instructions for generating the user interface using the description of the user interface; and

a network interface for transacting with the application server and the database via a network.

40.   (Previously Presented) The computer of claim 39 wherein the sets of instructions further comprises:

a set of instructions for sending to the application server a request that the description be created; and

a set of instructions for receiving data from the database in order to populate the user interface.

41.   (Previously Presented) The computer of claim 39 wherein the sets of instructions further comprises:

a set of instructions for sending preferences for the user interface to the server application, the preferences being utilized in creating the description.

42.   (Currently Amended) A computer <u>readable medium storing a</u> ~~program product having a computer readable medium having~~ computer program <u>which when executed by at least</u>

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one processor generates ~~instructions recorded thereon for generating~~ a user interface that transacts with a database having a data model containing a plurality of entities, the computer program ~~product~~ comprising:

instructions for receiving a description of the user interface, the description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type upon determination that the first entity satisfies a first set of conditions; and

instructions for generating the user interface using the description of the user interface.

43.   (Currently Amended) The computer <u>readable medium</u> ~~program product~~ of claim 42 wherein the description of the user interface is created using a current data model of the database, the current data model reflecting any changes to the database up to when the description is created.

44.   (Currently Amended) The computer <u>readable medium</u> ~~program product~~ of claim 42 further comprising:

instructions for sending preferences for the user interface, the preferences being utilized in creating the description.

45.   (Previously Presented) An apparatus for generating a user interface that transacts with a database having a data model containing a plurality of entities, the apparatus comprising:

means for receiving a description of the user interface, the description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type upon determination that the first entity satisfies a first set of conditions; and

means for generating the user interface using the description of the user interface.

46.   (Previously Presented) A system comprising:

a database having a data model containing a plurality of entities; and

a server communicatively coupled to the database for creating a description of a user interface that transacts with the database, the description being based upon classification of the plurality of entities into entity types wherein the classification comprises classification of a first entity as a first entity type upon determination that the first entity satisfies a first set of conditions.

47.   (Previously Presented) The system of claim 46 wherein the server obtains a current data model of the database, the current data model reflecting any changes to the database up to when the current data model is obtained, a current description of the user interface being created using the current data model of the database.

48.   (Previously Presented) The system of claim 46 wherein the server is in persistent communication with the database.

49.   (Previously Presented) The system of claim 46 wherein the server is communicatively coupled to a first client via a network and distributes the created description to the first client for enabling the first client to generate the user interface.

50.   (Previously Presented) The system of claim 49 wherein the server provides the first client an only point of access to the database.

51.   (Previously Presented) The system of claim 49 wherein the server is communicatively coupled, via the network, to a second client having a different platform or operating environment than the first client, and distributes the created description to the second client for enabling the second client to generate the user interface.

52.   (New) A computer comprising:

a)   a description of a data store;

b)   a browser; and

c)   an application for generating user-interface elements based on said description, said user-interface elements for display in said browser and for facilitating transactions with said data store.

53.   (New) The computer of claim 52 further comprising a storage for storing the description, the browser, and the application.

54.   (New) The computer of claim 52, wherein said user-interface elements facilitates transactions by permitting a user to transact with said data store.

55.   (New) The computer of claim 54, wherein at least one user interface element is displayed in said browser after the user requests data from said data store.

56.   (New) The computer of claim 52, wherein said browser is a web browser, wherein said application is a distributed application running on said the web browser.

57.   (New) The computer of claim 55, wherein said distributed application is an applet.

58.   (New) A method comprising:

a)   receiving a first request for a first user interface to transact with a first data store;

b)   supplying a first description to generate the first user interface;

c)   receiving a second request for a second user interface to transact with a second data store; and

d)   supplying a second description to generate the second user interface,

wherein said first and second descriptions differ.

59.   (New) The method of claim 58, wherein the first and second data stores are the same data store, wherein the first request is received from a first user while the second request is received from a second user different than the first, wherein the first description is supplied to the first user while the second description is supplied to the second user.

60.   (New) The method of claim 59, wherein the first and second user interfaces comprises at least two user-interface elements for facilitating data transactions, wherein said first user interface comprises at lest one more user-interface element than said second user interface.

61.   (New) The method of claim 59, wherein the first and second user interfaces are displayed in an application running on different computers.

62.   (New) The method of claim 60, wherein the application is a web browser.

63. .   (New) The method of claim 58, wherein the first and second data stores are the different data stores, wherein the first request is received from a first user while the second request is received from a second user different than the first, wherein the first description is supplied to the first user while the second description is supplied to the second user.